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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/825,353	04/04/2001	Erik Dahlman	2380-307	1424	
7590 11/24/2004		EXAMINER			
NIXON & VANDERHYE P.C.			NGUYEN,	NGUYEN, HANH N	
8th Floor 1100 North Glebe Road			ART UNIT	PAPER NUMBER	
Arlington, VA 22201			2662		
			DATE MAILED: 11/24/2004	DATE MAILED: 11/24/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

- 		Application No.	Applicant(s)			
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Office Action Summary		09/825,353	DAHLMAN ET AL.			
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	The MANUAL DATE of this communication	Hanh Nguyen	2662			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet wit	n the correspondence address			
THE - External after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 10 SIX (6) MONTHS from the mailing date of this communication, e period for reply specified above is less than thirty (30) days, a report of the provision of the pr	I. 136(a). In no event, however, may a re eply within the statutory minimum of thirty d will apply and will expire SIX (6) MONT ute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on Appl	olication filed on 04/04/01.				
		nis action is non-final.				
3)	-					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
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	Claim(s) <u>1-35</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.	awit from consideration.				
	Claim(s) <u>1-35</u> is/are rejected.					
	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and	or election requirement.				
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	The specification is objected to by the Examir		About Francisco			
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11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the I					
		Examiner. Note the attached				
	under 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreig All b) Some * c) None of:		119(a)-(d) or (f).			
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	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) L_J Interview Su Paper No(s)	ummary (PTO-413) /Mail Date			
3) 🛛 Inforr	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0	8) 5) Notice of Inf	formal Patent Application (PTO-152)			
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DETAILED ACTION

Oath/Declaration

Non-initialed and/or non-dated alterations have been made to the oath or declaration. See 37 CFR 1.52(c).

The declaration filed on 7/11/01 is defective because Applicant failed to initiate alterations.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-10, 12, 14-22, 24-28 and 30-35 are rejected under 35 USC 102(e) as being anticipated by O'Byrne (Pat. 6,243,584 B1).

In claims 1, 24, 28, 30, O'Byrne discloses a CDMA communication system (Fig.2A, CDMA 2110) having an associated first frequency reuse (Fig.2A, ref. 2160, 2150, 2170) for the first channel, and an associated second frequency reuse for a second channel (Fig.2B, ref. 2120)

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wherein one of the channels is a code division multiple access (CDMA) channel. See col.4, lines 15-20 & lines 40-50 & col.5, lines 1-5 & lines 65-67).

In claims 12 and 27, O'Byrne discloses a main frame computer system (a control node comprising a memory and a controller) operated on a CDMA network. The computer system is configured to update the existing CDMA network. See col.3, lines 60 to col.4, line 5) (storing and associating frequency reuse values for different channels wherein one of the first and second channels is a code division multilple access (CDMA) channel).

In claims 2 and 15, O'Byrne discloses the first channel includes a first type of Channel (shared channel/downlink channel, see col.4, lines 15-22) and the second channel includes a second type of channel (see col.4, lines 40-50).

In claims 3, 16, 25 and 31, O'Byrne discloses the first type of channel is a shared channel(shared channel/downlink channel, see col.4, lines 15-22) and the second type of channel is a dedicated channel (see col.4, lines 40-50).

In claims 4 and 32, O'Byrne discloses the shared channel is a downlink channel (see col.4, lines 15-20) and the second type of channel includes a downlink dedicated channel associated with the downlink shared channel.

In claims 26 and 33, the limitation of this claim has been addressed in claim 1.

In claim 5, O'Byrne discloses the second channel type also includes an uplink dedicated channel, associated with the downlink shared channel (See col.5, lines 7-15).

In claims 6, 7, 17 and 22, O'Byrne discloses the first frequency reuse is greater than the second frequency reuse (Fig.4, F1, F2) and the second frequency reuse (Fig.4, F1, F1) is equal to one (see Fig.4, col.1-5).

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In claims 8, 18, 20 and 34, O'Byrne discloses the first type of channel is a downlink channel (see col.4, lines 15-20) and the second type of channel is an uplink channel (col.5, lines 7-12).

In claim 9, 19, 21 and 35, O'Byrne discloses the first type of channel includes multiple downlink channels(see col.4, lines 15-20) and the second type of channel includes one uplink channel associated with the multiple downlink channels (col.5, lines 7-12).

In claims 10 and 14, O'Byrne discloses the first type of channel is a channel not configured to use soft handover, and the second type of channel is a channel that is configured to use soft handover (See col.5, lines 20-25).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 13 is rejected under 35 USC 103(a) as being unpatentable over O'Byrne (Pat. 6,243,584 B1) in view of H'mimy et al. (Pat. 6,512,752 B1).

In claim 13, O'Byrne does not disclose the control node is a radio network controller coupled to one or more base stations. H'mimy et al. discloses a radio network controller (Fig.1, BSC 28) coupled to one or more base stations (Fig.1, BTSs 26). See col.3, lines 30-45). Therefore, it would have been obvious to one ordinary skill in the art to use the mainframe computer of O'Byrne as a radio network controller coupled to base stations in a

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CDMA network to assign different frequency reuse values to cells to increase cell capacity. The the purpose is to minimize interferences caused by similar frequency values cells.

Claims 11, 23 and 29 are rejected under 35 USC 103(a) as being unpatentable over O'Byrne (Pat. 6,243,584 B1) in view of Mujtaba (Pat. 6,813,254 B1).

In claims 11, 23, 29, O'Byrne does not disclose the other of the first and second channels is an otthogonal frequency division multiplexing (OFDM) channel. Mujtaba discloses, in Fig.11, downlink channels 102 use OFDM technique (first channel is an OFDM chennel). See col.6, lines 30-45. Therefore, it would have been obvious to one ordinary skill in the art to use OFDM technique in uplink or down link channels in O'Byrne for the purpose of separating users with different slots and codes.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Soliman (Pat.6356531 B1) discloses Monitoring of CDMA Load and Frequency Reuse Based on Reverse Link Signal-To-Noise Ratio.

Natali et al. (Pat. 6,317,412 B1) disscloses Increased Capacity in an OCDMA System for Frequency Isolation.

Persson (Pat. 6,556,829 B1) discloses Mobile Communication System.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Nguyen whose telephone number is 571 272 3092. The examiner can normally be reached on Monday-Friday from 8AM to 5PM. The examiner can also be reached on alternate

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on 571 272 3088. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hanh Nguyen Primary Examiner

November 19, 2004